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# Input and Output: Using LEGO Robots to Understand Functions

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# My Background

- Taught grades 5-8 in New York State for 9 years
- Exposed to robotics during student teaching
- Became a FLL coach my 3<sup>rd</sup> year of teaching
- Slowly incorporated robotics into my math courses
- Dissertation investigated the teaching of an entire unit with robotics – proportional reasoning

# The Lesson

- Designed for an 8<sup>th</sup> grade classroom
- Requires only one 45 minute class
- Incorporates all 8 mathematical practices
- Helps students determine if a table of values represents a function
- Supports students' understanding of writing equations to represent a table of values

# Let's Learn with Robots!

As you are working through the lesson I will circulate about the room to answer any questions you may have.



# Debrief

- What are your thoughts about this experience?
- What do you perceive as the benefits for students?
- What hurdles do you think would prevent you from incorporating robots into your classes?
- What questions do you have for me?

# Thank you!

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# Lesson Plan Resources

## Input and Output: Using LEGO Robots to Understand Functions

- [lesson overview](#)
- [student task sheet](#)
- [task sheet answer key](#)



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